

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 664875	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2005/002086	International filing date (day/month/year) 02/02/2005	(Earliest) Priority Date (day/month/year) 04/02/2004
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/46 H04L12/40 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/169769 A1 (HO JIN-MENG ET AL) 11 September 2003 (2003-09-11) abstract paragraphs '0015!, '0027!, '0041! - '0046!; figure 6 -----	1-23
X	US 6 665 313 B1 (CHANG HOON ET AL) 16 December 2003 (2003-12-16) abstract column 3, line 3 - line 15 column 6, line 6 - column 7, line 23; figures 5-10 -----	1-23
X	US 2003/210673 A1 (NISHIMURA TAKUYA) 13 November 2003 (2003-11-13) abstract; claims 1-3; figures 2-6 paragraph '0069! ----- -/--	1,8, 15-17

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

20 April 2005

Date of mailing of the international search report

28/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Jimenez Hernandez, P

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/235197 A1 (WENTINK MAARTEN MENZO) 25 December 2003 (2003-12-25) abstract paragraphs '0002! - '0017!, '0046! - '0070!; claims 1,2; figures 4-9	1,8, 15-17
X	WO 03/071744 A (MOTOROLA INC; DOYLE, JOHN; LOGAN, JOHN; ROHLER, MICHAEL; PICKERING,) 28 August 2003 (2003-08-28) abstract; claims 1,2; figures 1-4	15,16

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003169769	A1	11-09-2003	NONE	
US 6665313	B1	16-12-2003	KR 2000074178 A	05-12-2000
			AU 758985 B2	03-04-2003
			AU 4618100 A	21-11-2000
			BR 0010384 A	19-03-2002
			CA 2371086 A1	16-11-2000
			CN 1352850 A	05-06-2002
			DE 20023164 U1	06-03-2003
			EP 1177671 A1	06-02-2002
			JP 2002544717 T	24-12-2002
			WO 0069147 A1	16-11-2000
			RU 2217869 C2	27-11-2003
			US 2004120348 A1	24-06-2004
US 2003210673	A1	13-11-2003	JP 2003324445 A	14-11-2003
US 2003235197	A1	25-12-2003	NONE	
WO 03071744	A	28-08-2003	GB 2385752 A	27-08-2003
			AU 2002356609 A1	09-09-2003
			WO 03071744 A1	28-08-2003
			EP 1476986 A1	17-11-2004